CRU® RAX® 3QR Rack Enclosure

Product Models	RAX210-3QR, RAX211-3QR
Interface Types & Speeds	• USB 3.0: up to 5 Gbps • USB 2.0: up to 480 Mbps • eSATA: up to 3 Gbps • FireWire 800: up to 800 Mbps
Drive Types Supported	3.5-inch SATA Hard Drives
Data Connectors	• One (1) USB 3.0/2.0 connector • One (1) eSATA connector • Two (2) FireWire 800 connectors
RAID Levels	JBOD, 0, 1
Operating System Requirements	• Windows 8.1, 7, Vista, or XP • Windows Server 2012, 2008, or 2003 product families • Mac OS X 10.4.x or higher • Linux distributions that support the connection type used
Compliance	EMI Standard: FCC Part 15 Class A, CE EMC Standard: EN55022, EN55024
Shipping Weights	• 17 pounds without drives (includes accessories) • 23 pounds with drives
Dimensions	16.89" x 16.26" x 1.73" (429mm x 413mm x 44mm)
Technical Support	Your investment in CRU products is backed up by our free technical support for the lifetime of the product. Contact us through our website, cru-inc.com/support or call us at 1-800-260-9800 or +1-360-816-1800.

Product Warranty
CRU warrants this product to be free of significant defects in material and workmanship for a period of three years from the original date of purchase. CRU's warranty is nontransferable and is limited to the original purchaser.

Limitation of Liability
The warranties set forth in this agreement replace all other warranties. CRU expressly disclaims all other warranties, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose and non-infringement of third-party rights with respect to the documentation and hardware. No CRU dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty. In no event will CRU or its suppliers be liable for any costs of procurement of substitute products or services, lost profits, loss of information or data, computer malfunction, or any other special, indirect, consequential, or incidental damages arising in any way out of the sale of, use of, or inability to use any CRU product or service, even if CRU has been advised of the possibility of such damages. In no case shall CRU's liability exceed the actual money paid for the products at issue. CRU reserves the right to make modifications and additions to this product without notice or taking on additional liability.

FCC Compliance Statement: "This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at this own expense.

In the event that you experience Radio Frequency Interference, you should take the following steps to resolve the problem:
1) Ensure that the case of your attached drive is grounded.
2) Use a data cable with RFI reducing ferrites on each end.
3) Use a power supply with an RFI reducing ferrite approximately 5 inches from the DC plug.
4) Reorient or relocate the receiving antenna.

FC Tested to comply with FCC standards

FOR OFFICE OR COMMERCIAL USE

Models Covered:
RAX210-3QR
RAX211-3QR

CRU **RAX**

Thank you for purchasing CRU's RAX 3QR enclosure. The RAX 3QR enclosure is a rack-mountable storage enclosure that incorporates removable drive carriers that make it easy to use multiple hard drives in the same enclosure. RAX 3QR enclosures provide four connection types that allow you the needed flexibility to connect to your host computer, including USB 3.0 which provides up to a 5 Gbps transfer rate.

Features

- Disk setup is near-instantaneous and is capable of JBOD, RAID 0 and 1 disk modes.
- TrayFree Models (RAX210-3QR) allow for easy insertion and removal of hard drives. Models with removable carriers (RAX211-3QR) enclose and protect hard drives when removed from the RAX enclosure.
- eSATA, FireWire 800, USB 2.0, and USB 3.0 connections are provided for wide variety of connectivity.
- Specially designed drive and carrier interfaces are built to withstand tens of thousands of insertions.
- Rugged all-metal construction for superior durability.

Download a copy of the complete User Manual at www.cru-inc.com.

1 Installation Steps

1.1 Installing Hard Drives

1.1.1 TrayFree™ Bay Drive Installation

NOTE: This subsection refers only to the RAX210-3QR enclosure.

a. Pull on the ejection handle to open the door.

b. Slide in your SATA hard drive, connector-end first with the label facing up.

c. Shut the door by pushing on the handle.

1.1.2 Drive Installation for RAX with Removable Carriers

NOTE: This subsection refers only to the RAX211-3QR.

a. Slide the drive carrier out of the RAX enclosure.

b. The carrier's cover is held in place by a screw on the rear of the unit. Remove the screw and then remove the cover.

c. Slide the drive in from the front of the carrier.

d. Mate the connection on the drive with the connection on the drive carrier circuit board.

e. Flip the drive/carrier assembly over and secure the drive in place with the provided screws.

f. Attach the Temperature Control Cooling Sensor to the top of the drive with a piece of tape.

g. Replace the carrier cover and secure the screw on the rear of the carrier.

h. Slide the carrier into the RAX enclosure.

1.2 Operating Your RAX Enclosure

Connect the data cables to the RAX enclosure and your computer. Plug in the power cord to a grounded electrical outlet. Insert hard drives into the unit and turn on the power.

• For the RAX210, the drives will begin to spin up automatically.

• For the RAX211, use the included set of keys to turn the key 90 degrees clockwise to power on each hard drive.

NOTE: When **any** hard drives are first used with a RAX 3QR unit they will show up as blank, unallocated drives and you'll need to create a RAID inside the unit before you can use it. **Note that creating a RAID will erase all data on the drive, so be sure to back up your data before beginning this operation**.

Your RAX enclosure is now ready to use! If the hard drive is already formatted, it can be used right away. If the hard drives are brand new, or their file systems are not compatible with your operating system, the drive will need to be formatted before being used.

2 RAID Configuration

Use the LCD and menu selection buttons to complete these steps. **Changing RAID levels will erase any data on the drives. Make a backup copy of any data you wish to keep before changing the RAID.**

2.1 Creating a New RAID

a. Disconnect the RAX 3QR unit from the computer.

b. Insert two hard drives (preferably both the same make, model, and capacity) into the RAX 3QR unit and flip the power switch on the rear of the unit.

c. After the RAX 3QR unit boots up, it will begin alarming and the LCD will display the error "Error: Not a RAID Set". Press the **Enter** button to silence the alarm.

d. Press the **Enter** button a second time and the LCD screen will ask "Make New RAID?" Press **Enter** to confirm.

e. The LCD will display "Select RAID Type". Press **Up** or **Down** to cycle through to your desired RAID type and press **Enter**.

f. The screen will display "Will Erase all Data OK?" **Pressing Enter will result in the loss of all data on the drives.** Ensure all data is backed up, then press **Enter**.

g. The new configuration will be selected and the RAX 3QR unit will reboot. The RAID is now created.

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